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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,176	02/23/2004	Kun-Hong Chen	250122-1270	8529
24504	7590 11/09/2004		EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			VU, QUANG D	
STE 1750	RIA PARKWAY, NW		ART UNIT	PAPER NUMBER
ATLANTA,	GA 30339-5948	39-5948	2811	
			DATE MAILED: 11/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/785,176	CHEN, KUN-HONG			
Office Action Summary	Examiner	Art Unit			
	Quang D Vu	2811			
The MAILING DATE of this communication appeariod for Reply	opears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	— is action is non-final.				
					
Disposition of Claims					
4) ⊠ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-17 are subject to restriction and/or	awn from consideration.	· - ·			
Application Papers					
9) ☐ The specification is objected to by the Examir	ner.				
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the I	Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, drawn to a method for fabricating an interconnect structure, classified in class 438, subclass 118.
- II. Claims 9-17, drawn to an interconnect structure, classified in class 257, subclass758.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the group II invention could be made by a material different process. For example, selectively forming a conductive via plug to electrically connect the first metal layer, and then forming the dielectric layer on the first metal layer and around the conductive via plug, instead of forming a via hole in the dielectric layer to expose the first metal layer, and then filling the via hole to form a conductive via plug to electrically connect the first metal layer.

Because these inventions are distinct for the reasons give above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/785,176

Art Unit: 2811

Conclusion

Page 3

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang D Vu whose telephone number is 571-272-1667. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

qv November 4, 2004

EDDIE LEE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800